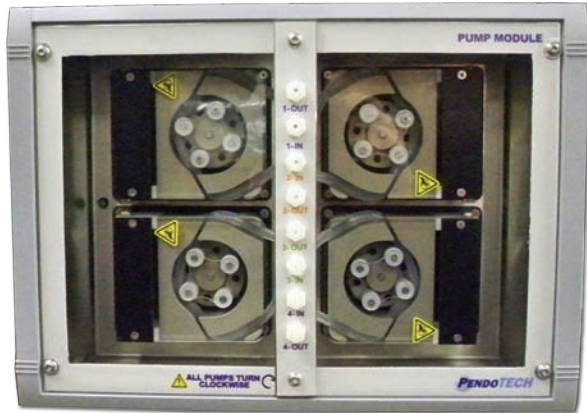


Filter Screening System Peristaltic Pump Module

The Peristaltic Pump Module is an accessory for the PendoTECH Filter Screening System™. The module can only be operated by interface with the system and is not designed to be operated independently. The pumps in the module are compact peristaltic pumps that are controlled from the Filter Screening System.



Product Features

- Peristaltic design with easily changeable fluid path that uses commonly available tubing
- Minimal drop in flow while pumping against back pressure
- Stepper motor control technology that pumps precisely
- Space-saving design with quiet operation
- Precise pumping from 1 mL/min to 120 mL/min
- Broad range of chemical compatibility by selection of tubing material
- May be run dry



Compact, High-Powered Integrated System for Normal Flow Filter Screening and Sizing

The Pump Module combined with the system and PC based Graphical User Interface provides a compact, high-powered system. Using these precision pumps, the Filter Screening System scale inputs maybe disabled and the total volume filtered is calculated by the control system based on the pumped volume. This is an alternative to using multiple scales.

Easily Loaded

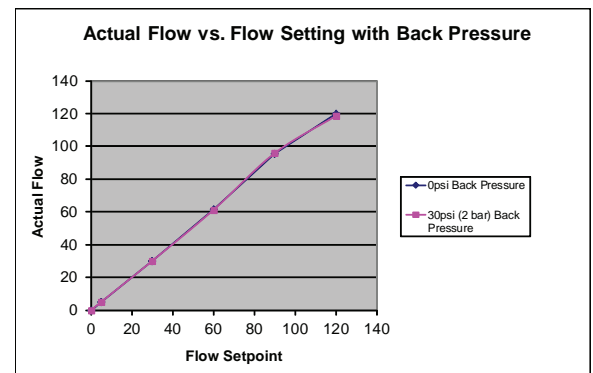
To change tubing the Lexan front cover is opened which in turn releases the tubing. It can then be easily removed for replacement.

For 1/8" ID tubing (size 16) there are 1/8" hosebarb fittings behind the panel for connection of tubing to the pump. On the front panel, there are 1/8" fittings for each pump inlet and outlet so process connections can be made quickly and easily from the pump front panel. Tubing with 1/16" ID can also be used along with 1/16" fittings.



Performance Against Back-Pressure

The pump continues to deliver the set flow rate across the range of back-pressures that may be encountered during a normal flow filtration process. The data in the graph represents there is minimal flow decay as pressure downstream of the pump increases. (tested up to the tubing pressure limit)



Peristaltic Pump Module Specification Table

| System Component | Specifications |
|--|---|
| Enclosure (with legs not retracted) | H x W x D: 9.85"x13.8"x10.3" (25 x 35.1 x 26.3 cm) Approx: 20 lbs. (6.80 kg), Material: Aluminum with powder polyester paint Front panel: 304 Stainless Steel with REGLO-E Peristaltic Panel mount pump; Back panel: anodized aluminum |
| Power Inlet With Power Switch | IEC 320 cord connection, 100 – 240 Volts, 50 – 60 Hertz, 2 amp max |
| Fuse | 2 amps (housed integral with the Power Switch) at full voltage range |
| Environmental Operating Range | All components rated to a temperature range of 5 to 40° C Humidity: 0 to 95% Relative Humidity, no condensation |
| Tubing Sizes | 1/8" ID x 1/4" OD (Masterflex size 16) 1/16" ID x 3/16" OD (Masterflex size 14) |
| Fluid Property Range | Function of tubing material and pressure rating performance tested up to 30 psi |
| Analog Pump Control* | One DB-25 male connector. Configured for 0-5V signals from PendoTECH Filter Screening System Control System Settings for Pump Setup: 0.75 ml/rotation, Maximum RPMs: 160, Flow Range: 1 to 120 mL/min Accuracy: +/- 5% of value, Repeatability: +/- 1% |
| Tubing for Connection of Pump to Panel | 1/8 inch (0.3175 cm) Hosebard Inlets/Outlets 1/16 inch (0.15875 cm) Hosebard Inlets/Outlets |



System shown with all accessories including Turbidity Module, Stand and Pump Module (Diaphragm Module Shown)

Ordering Information

| | |
|-------------------------|---|
| PDKT-NFFSS-PPM | Peristaltic Pump Module for PendoTECH Filter Screening System |
| PDKT-STAND-NFFSS | Stainless steel stand for filter screening system |